**SHASHANK REDDY BOYAPALLY**

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**EDUCATION and ACADEMIC QUALIFICATIONS**

**University of Florida**, Gainesville, Florida. **Aug '22 – Present**

Master of Science, Computer Science. **CGPA: 4.0/4.0**

**Jawaharlal Nehru Technological University College of Engineering Hyderabad**, Hyderabad, India. **Aug '18 – Jun '22**

Bachelor of Technology, Computer Science & Engineering, **CGPA**: **8.58/10 or 3.9/4** (according to WES evaluation)

**TECHNICAL SKILLS**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Web Dev & DB:** | React Native | ReactJS | Spring Boot | Django | PostgreSQL | MySQL | MongoDB | Firebase |
| **Cloud:** | AWS | GCP | Kubernetes | Docker | Terraform | Jenkins | Cron | OpenShift |
| **ML & Mobile:** | TensorFlow | OpenCV | CNN | RNN | GenerativeAI | Automation | Android | Flutter |
| **Tools:** | Git & GitHub | Bamboo | Postman | Octopus | Confluence | Jira | REST API | CI/CD |
| **Languages:** | C and C++ | Java | Python | JavaScript | Erlang | TypeScript | Golang | HTML&CSS |

**WORK EXPERIENCE and INTERNSHIPS**

* ***Software Engineering Intern*, Red Hat Inc. (OpenShift Performance and Scale Engineering)*,*** Raleigh, USA. **Jun '23 – Present**
* Successfully tested go-commons and kube-burner libraries, measuring workloads. Unit tested libraries with 95%+ coverage.
* Added new functionalities to kube-burner to measure the cluster metrics up to precision of 1ms, measured P99, P50 metrics.
* Working on GPT based chatbot, which indexes the information of the org and answers the questions. Indexed up to 1k docs.
* ***Software Engineering Intern*, Honeywell Technological Solutions (Aero Division)*,*** Hyderabad. **Mar '22 – May '22**
* Migrated the Business Management System - manages the Billing and subscription service operated by AMRs from Internet Explorer to Chromium based browsers, completed the migration before the deprecation of IE security single-handedly.
* Used struts framework along with JSP. Saved up to **165 hours** per month of manual work done by AMRs. **Boosted efficiency**.

**Takeaway:** Gained knowledge how legacy applications work and maintained.

* ***Software Engineering Intern*, Honeywell Connected Enterprises*,*** Bangalore. **Apr '21 – Jun '21**
* Developed an automated testing environment using Octopus and Protractor in an Agile environment**, conserving time for the task from 60 to 5 mins**. **Boosted efficiency up to 80%.**
* Leveraged React in the Front-end and Django for backend along with usage of Microsoft Azure PostgresDB and Storage.

**Takeaway:** Grasped hands-on projects and an idea of the way industry works along with its principles. Learnt various web technologies – React, Django, Bamboo.

* ***Data Analytics Virtual Intern*, KPMG International,** WFH. **Apr '20 – May '20**
* Assessed dataset, performed data transformations, feature engineering, and modelling using various tools like Tableau and Power BI. It led to **discovery of 40% more potential customers** based on demographics and transaction history.

**Takeaway:** Worked on data from real world, realized the potential hurdles one might face using the real-world data, and steps to overcome those hurdles in data analysis.

**PROJECTS**

* **Pedestrian Jaywalking Detector Mar '22 – May '22**

**Objective:** Identify pedestrians who jaywalk at traffic signals and on roads, identify them with their facial structure and map the identified violators with Aadhar Database (Govt. of India Database for citizens). A fine is levied after mapping on the violator. The violator is also notified through email and SMS through Twilio. Achieved up to 91% accuracy on sample size of 86 students.

**Role:** Team lead, Computer Vision Developer and Back-end Dev.

**Tools used**: TensorFlow, OpenCV, mediapipe, YOLOv3, dlib, face\_recognition, MySQL, Twilio.

* **COVID-19 Help Desk Mar '21 – May '21**

**Objective:** Provide informationabout the availability of beds and various medications available in each hospital for citizens, along with filters based on location of user during the severe second wave of COVID-19. Co-ordinated and led the team.

**Role:** Team Lead, Full Stack Web Developer, and Mobile Application Developer.

**Tools used**: ReactJS, Material UI and other various libraries, Firebase, React Native for Mobile Application Development.

* **Heal Meal Dec '20 – Feb '21**

**Objective:** Design and Develop a subscription-based system for people who have specific dietary requirements and food allergies. Achieved the said requirements in 5 weeks using agile methodologies in 5 sprints.

**Role:** Full Stack Developer and Team-lead.

**Tools used**: Amazon Web Services, Go, JavaScript, ReactJS, MySQL, Cron.

**PUBLICATIONS and PRESENTATIONS**

* **Published a research article** [*Comparative Analysis of Different Pre-trained Deep Learning Models for Brain Tumour*](http://www.gjstx-e.cn/gallery/71-sep2021.pdf) *Detection*.
* **Attained** **second position** in paper presentation on *Facial Recognition and Attendance System Using dlib and Face Recognition Libraries* in a state-level conference conducted by Computer Society of India, since 1965. (Dec '20).

**CERTIFICATES**

* Google Cloud Program, Dec '20.
* Certificate of Merit, CSI, Nov '20.